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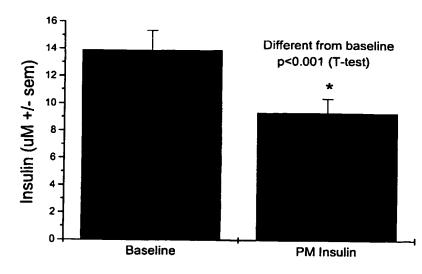
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NIGHT-TIME ORAL INSULIN THERAPY



(57) Abstract: A method for protection of a mammal that has impaired glucose tolerance or early stage diabetes mellitus from developing overt or insulin dependent diabetes comprises administering an orally effective dose of a pharmaceutical formulation comprising insulin at nighttime, e.g., at or shortly before bedtime.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/00273

CT A						
A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61K 38/28 US CL : 514/3						
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According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED						
Minimum do	cumentation searched (classification system follow	ed by classification symbols)				
U.S. : 5	Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/3, 4; 424/487; 530/303					
Documentati	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where		Relevant to claim No.			
Y	US 5,698,515 (PLATE et al.) 16 December 1997 column 6 lines 37-60.	<del>!</del>	1-37			
Y	US 2002/0147135 A1 (SCHNELL) 10 October 2002 (10.10.2002), see abstract, pages 19- 20.					
Y	US 6,610,649 B2 (WAHREN et al.) 26 August 20 19-22.	003 (26.08.2003), see abstract; columns	1-37			
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Further	documents are listed in the continuation of Box C.	See patent family annex.				
* Sp	ecial categories of cited documents:	"T" later document published after the into	emational filing date or			
"A" document be of parti	defining the general state of the art which is not considered to cular relevance	priority date and not in conflict with tunderstand the principle or theory und	the application but cited to			
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"O" document	referring to an oral disclosure, use, exhibition or other means	combination being obvious to a person	skilled in the art			
— DEPORTS da	published prior to the international filing date but later than the	"&" document member of the same patent f	amily			
Date of the actual completion of the international search		Date of mailing of the international search	h report			
17 April 2004 (17.04.2004) Name and mailing address of the ISA/US		1100 000 01	14 FEB 2005			
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Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		Telephone. No				
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/00273

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
Ims	шеш	ational report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	6.4(a)	Claim Nos.: 38-39 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule		
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This l	Interna	tional Searching Authority found multiple inventions in this international application, as follows:		
1.   2.   3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. [	k on P	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.		

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INTERNATIONAL SEARCH REPORT	
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Continuation of B. FIELDS SEARCHED Item 3:	
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search terms: insulin, administering, oral, bed, night, tolerance, mellitus	
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